

FIG. 1

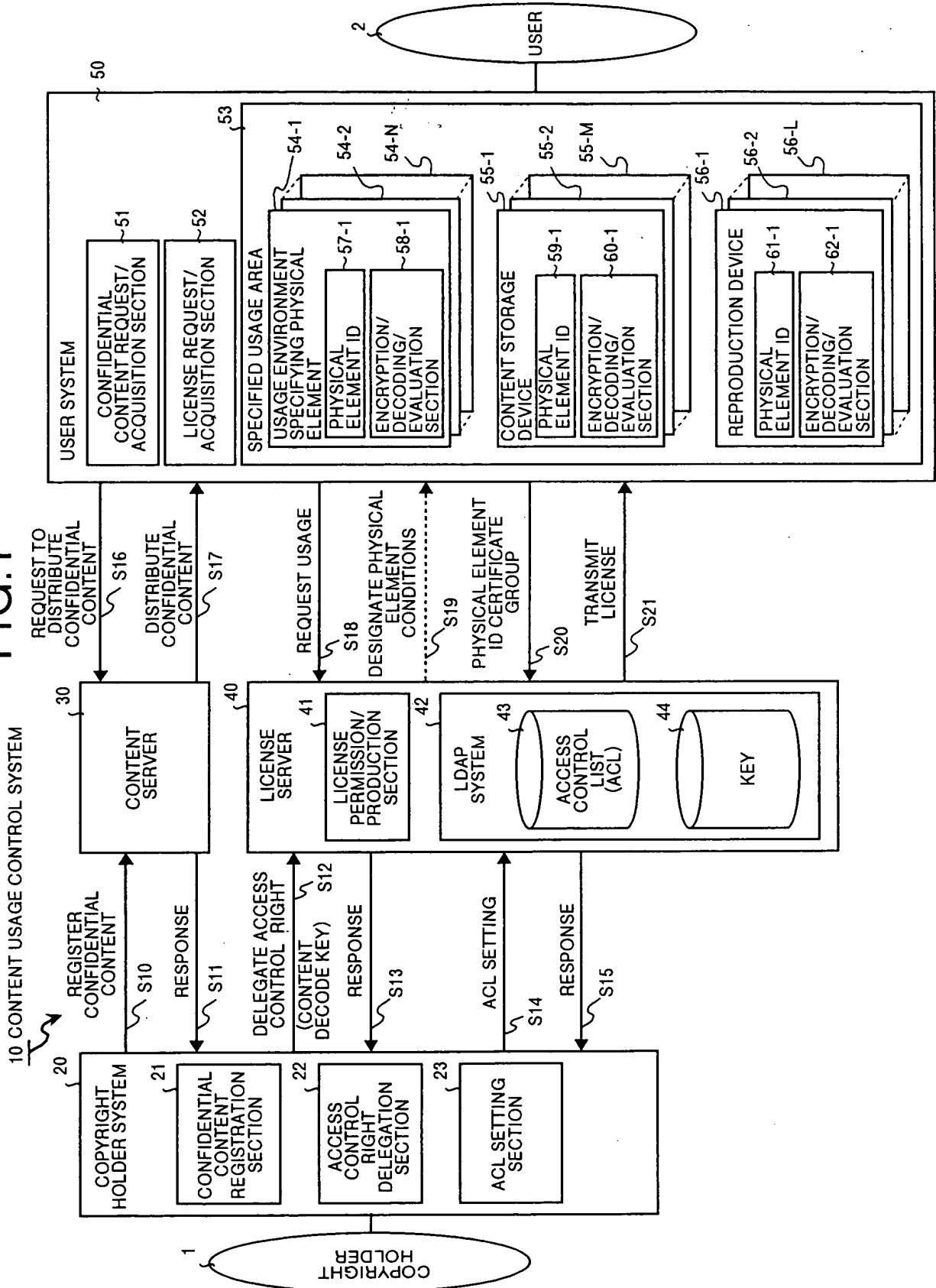


FIG.2

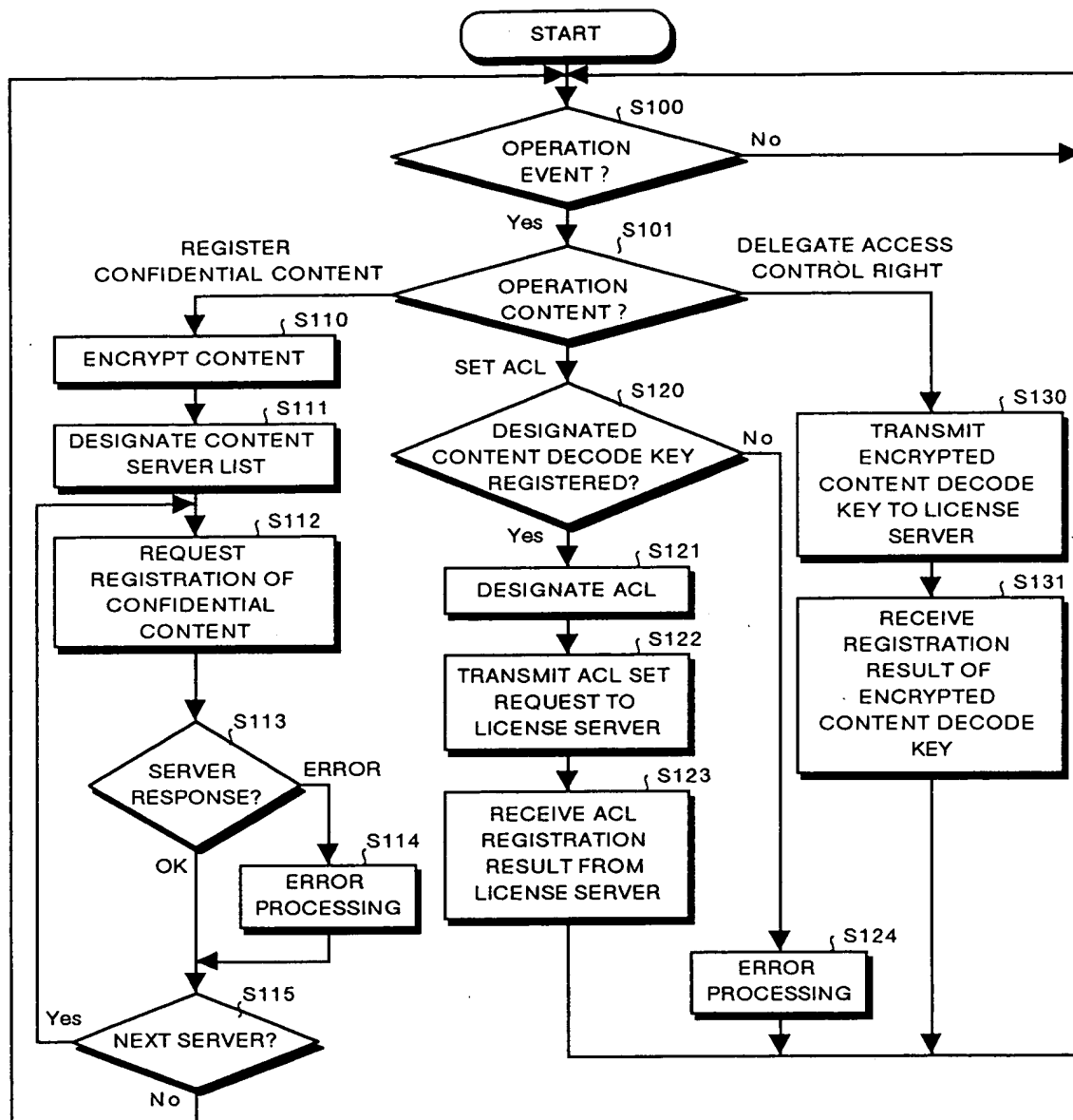


FIG.3

| ACCOUNT CONDITION VALUE | USAGE STATE |
|-------------------------------------------------|---------------------------------------------------|
| Max Count : MAXIMUM NUMBER OF OPERABLE SESSIONS | count : COUNT OF NUMBER OF OPERATIONS COMPLETE |
| Max Length : MAXIMUM READ LENGTH | totalLen : READ LENGTH PLUS REQUESTED READ LENGTH |
| max TimeLen : MAXIMUM EXECUTABLE TIME | totalTime : EXECUTED TIME LENGTH |
| max Debt : CREDIT LINE (CHARGING CONDITION) | debt : OUTSTANDING AMOUNT(DEBT WHEN NEGATIVE) |

| PHYSICAL ENVIRONMENT SPECIFYING ELEMENT (PCSUE) CONDITION | PHYSICAL ELEMENT ID CLASS (PCSUE-IDClass) |
|--------------------------------------------------------------|----------------------------------------------------------------------------------|
| (1) COMPUTER BODY | PSN (PROCESSOR SERIAL NUMBER) |
| (2) PERIPHERAL DEVICES | DSN : DEVICE TYPE, SERIAL NUMBER |
| (3) MEDIA | MSN : MEDIA TYPE, SERIAL NUMBER |
| (4) IC CARD | certificates : CERTIFICATES ISSUED BY IC CARD |
| (5) HUMAN BODY PARTS (FINGERPRINTS, IRIS, etc.) | body Parts : BODY PARTS (FINGERPRINTS, IRIS, etc.) AUTHENTICATION INFORMATION |
| (6) PERMITTED TIME ZONE | time Period : TIME POINT (LOCAL CLOCK, GPS, etc.) |
| (7) NETWORK DOMAIN | MACaddress : MAC ADDRESS |
| (8) GEOGRAPHICAL POSITION (COUNTRY OF USAGE, etc.) | location : GPS/PHS DETECTION POSITION |
| (9) HUMAN MEMORY | user-ID WithPwd : USER ID AND PASSWORD |
| (10) GROUP | group : SET OF PHYSICAL ELEMENT IDS |

FIG.4

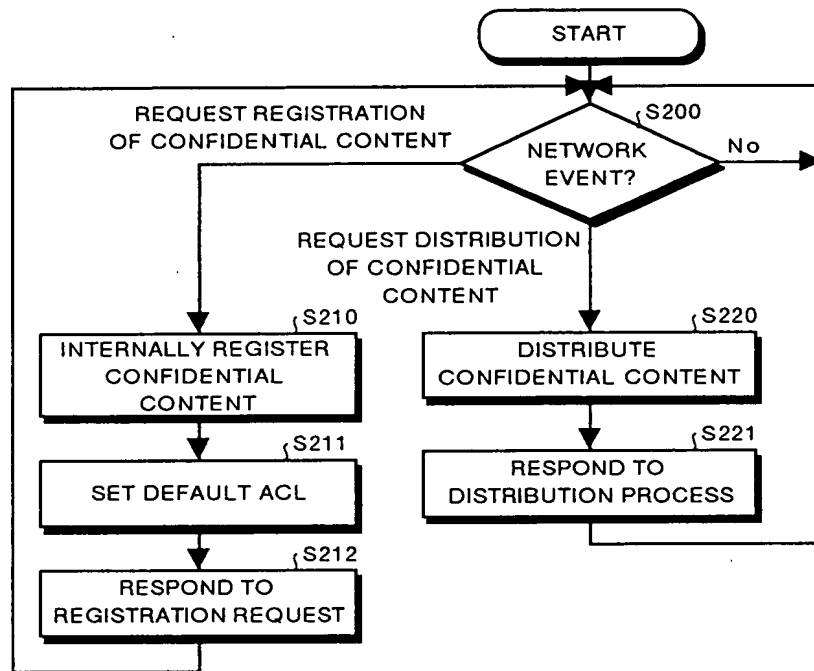


FIG.5

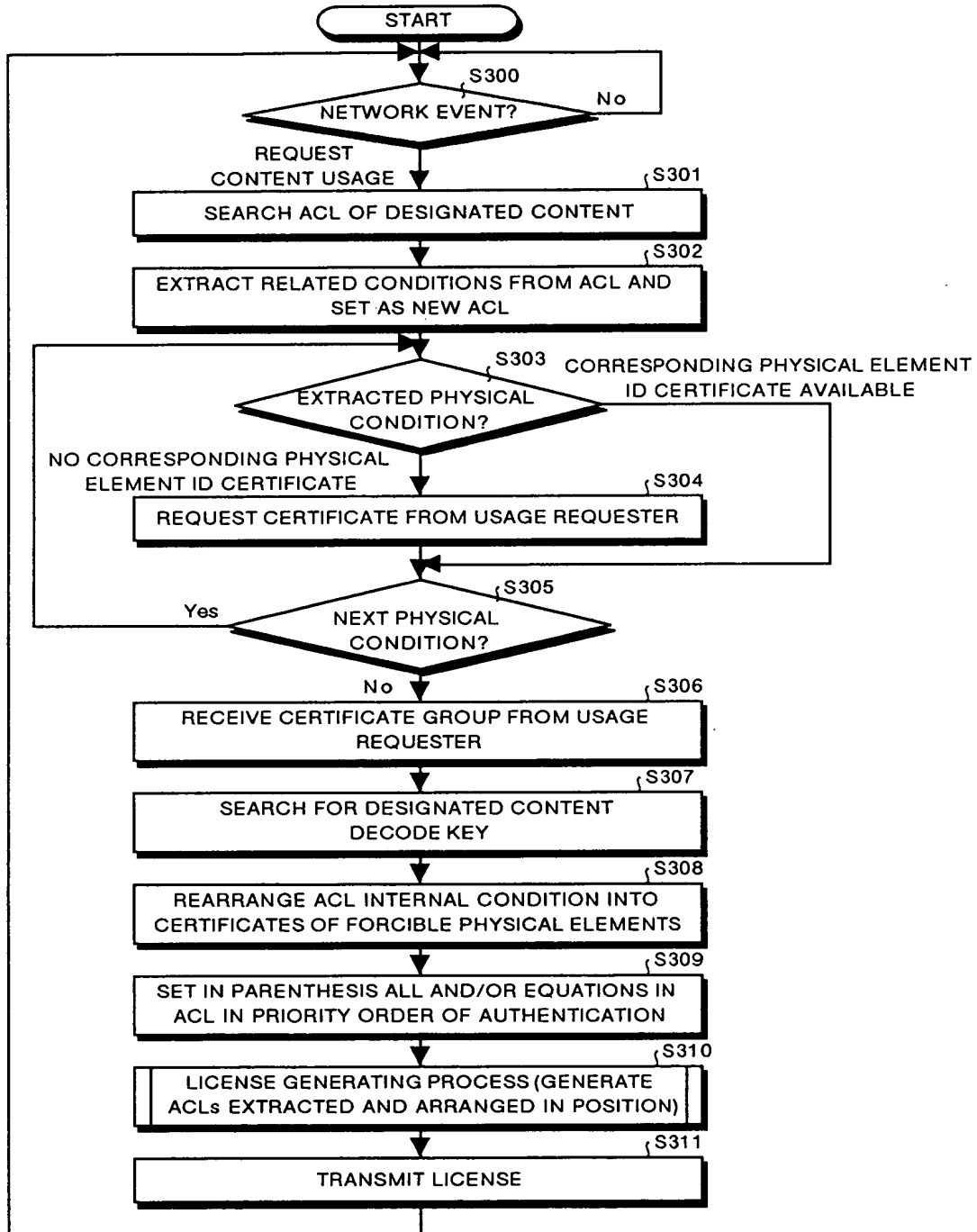


FIG.6

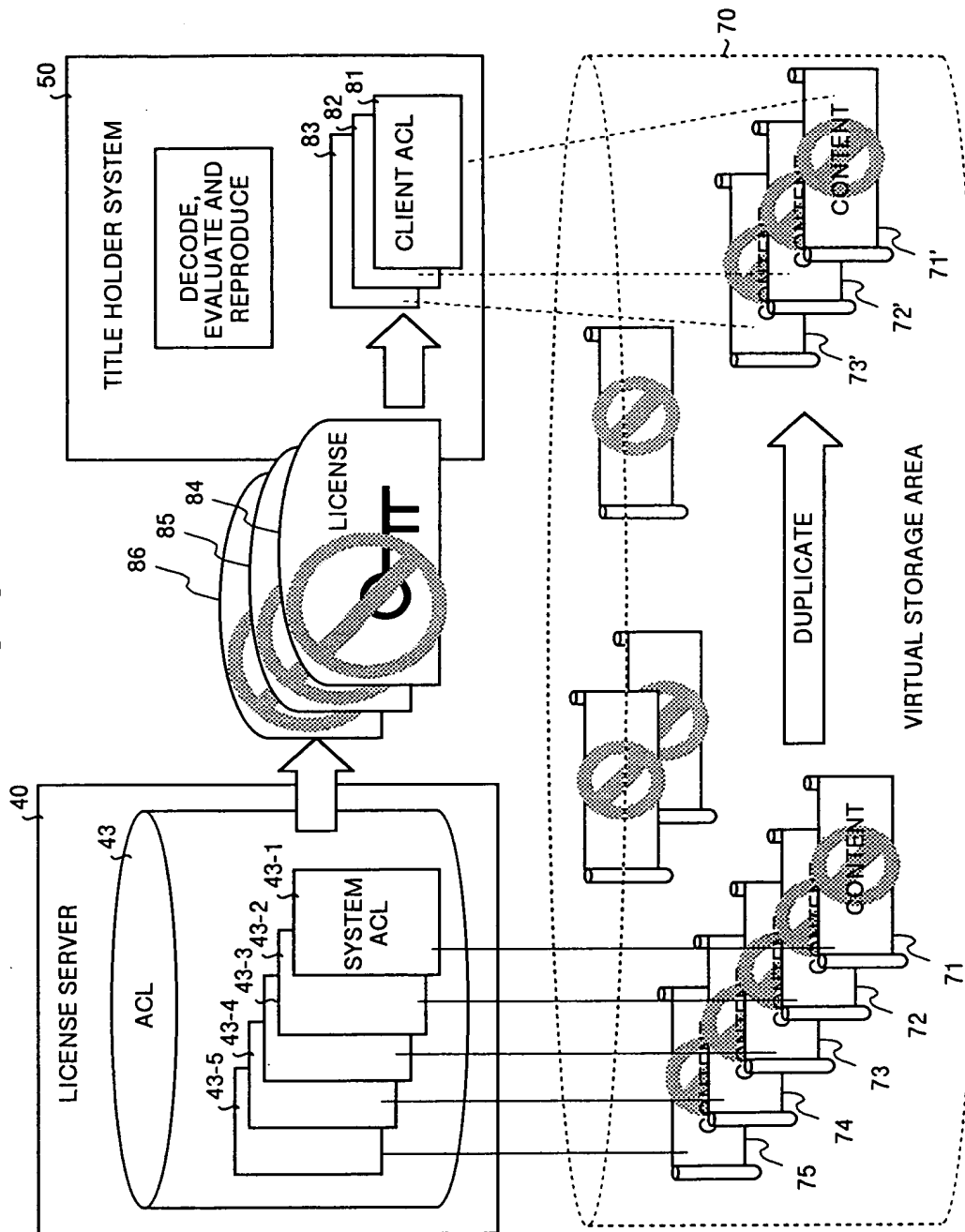


FIG.7

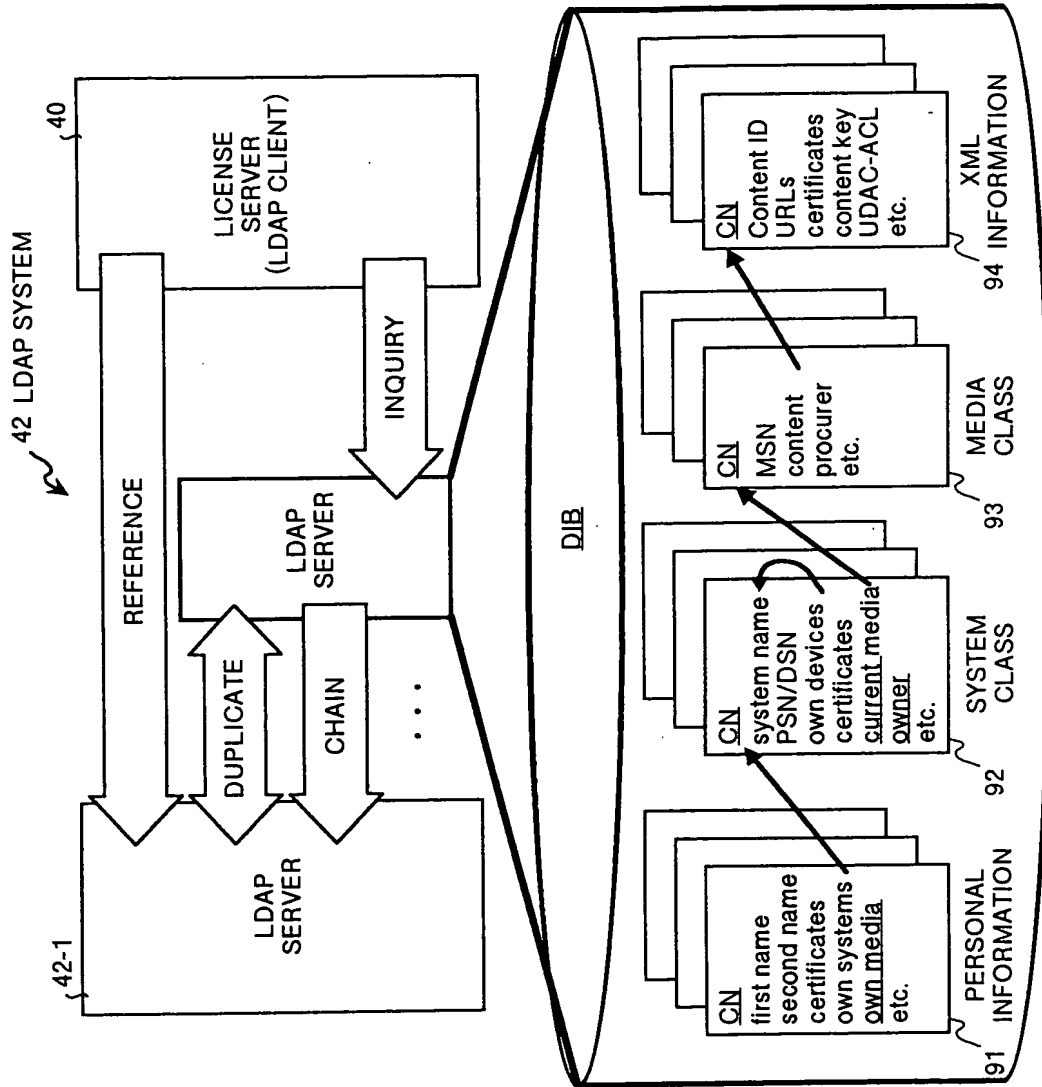
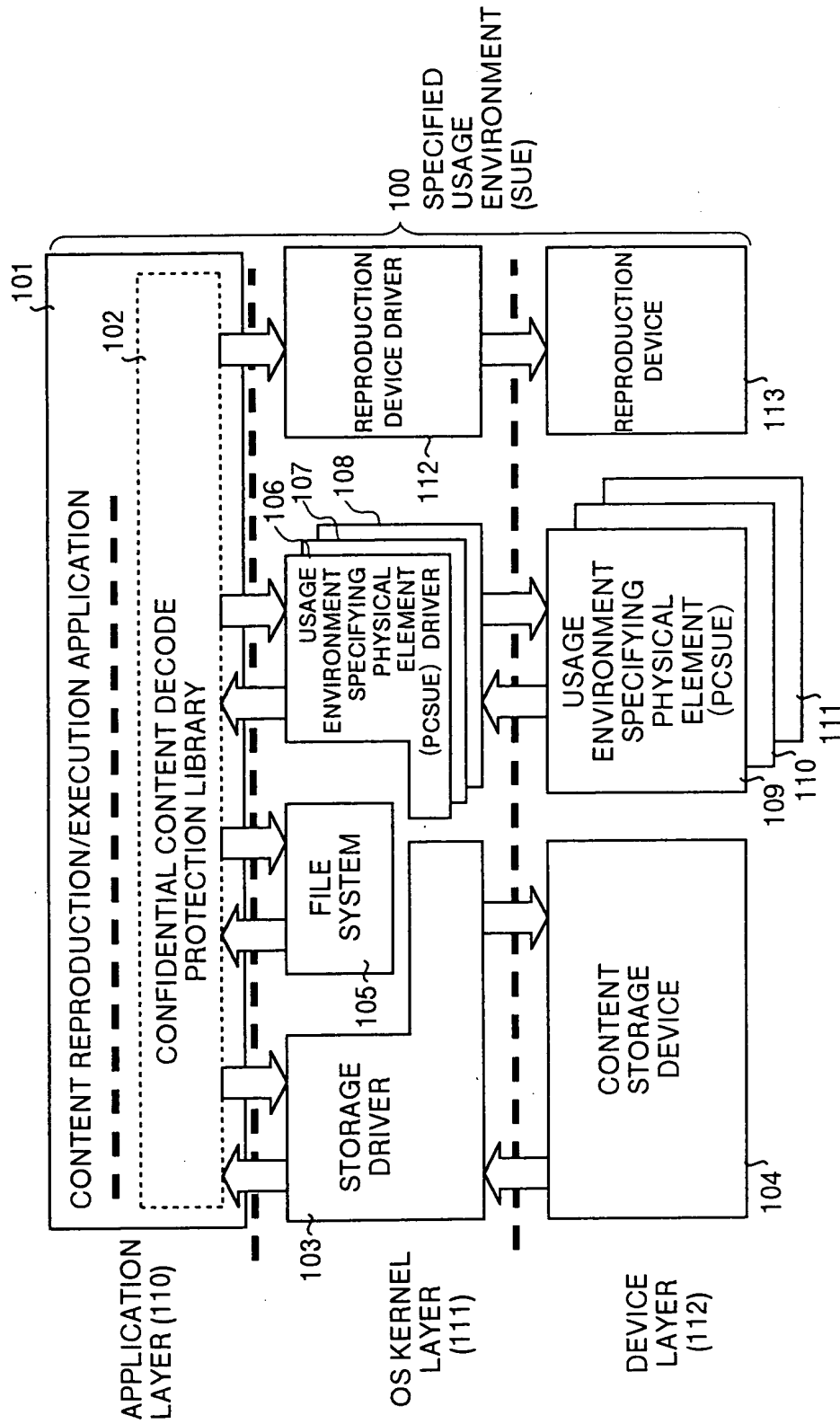


FIG. 8



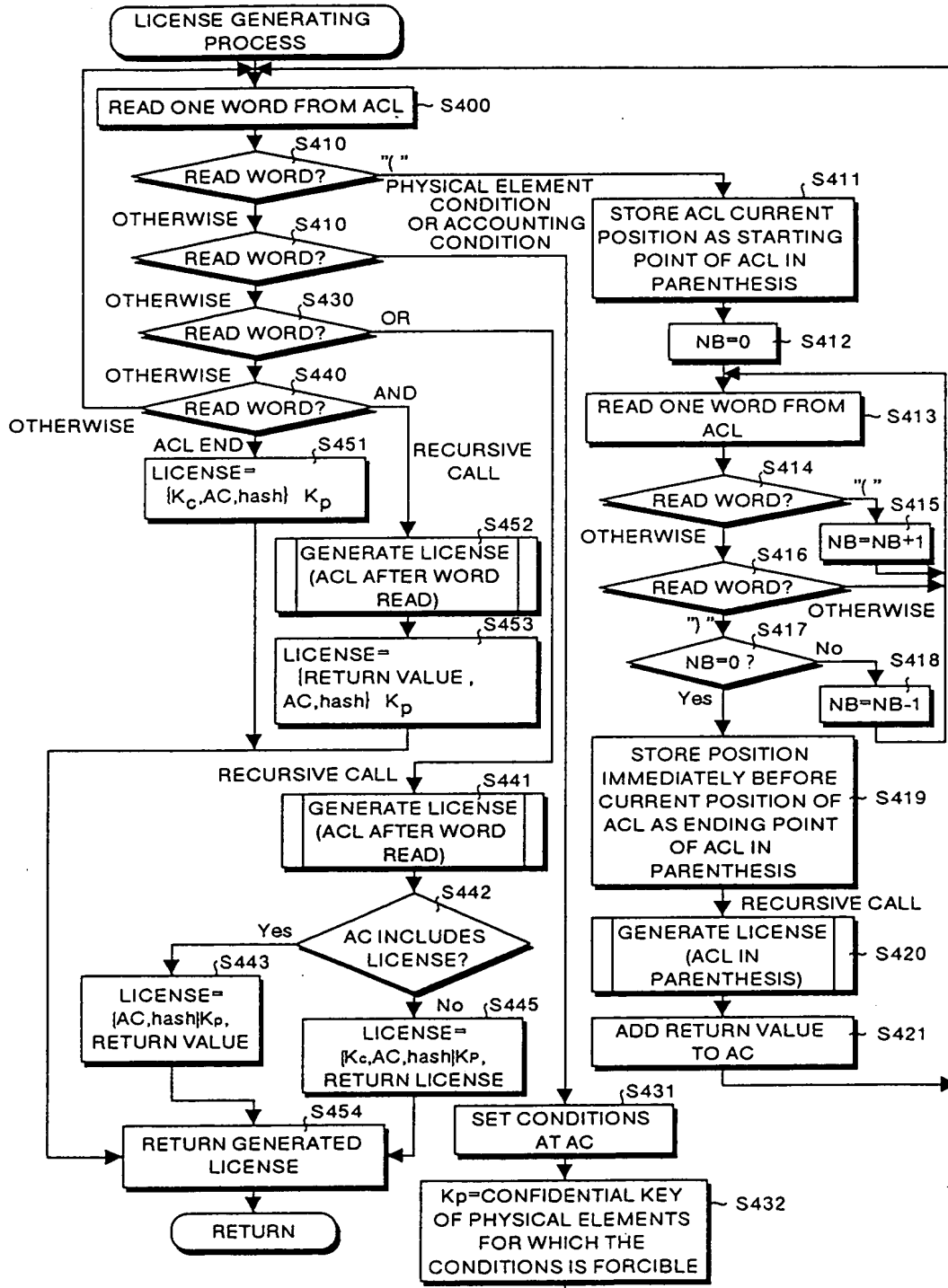
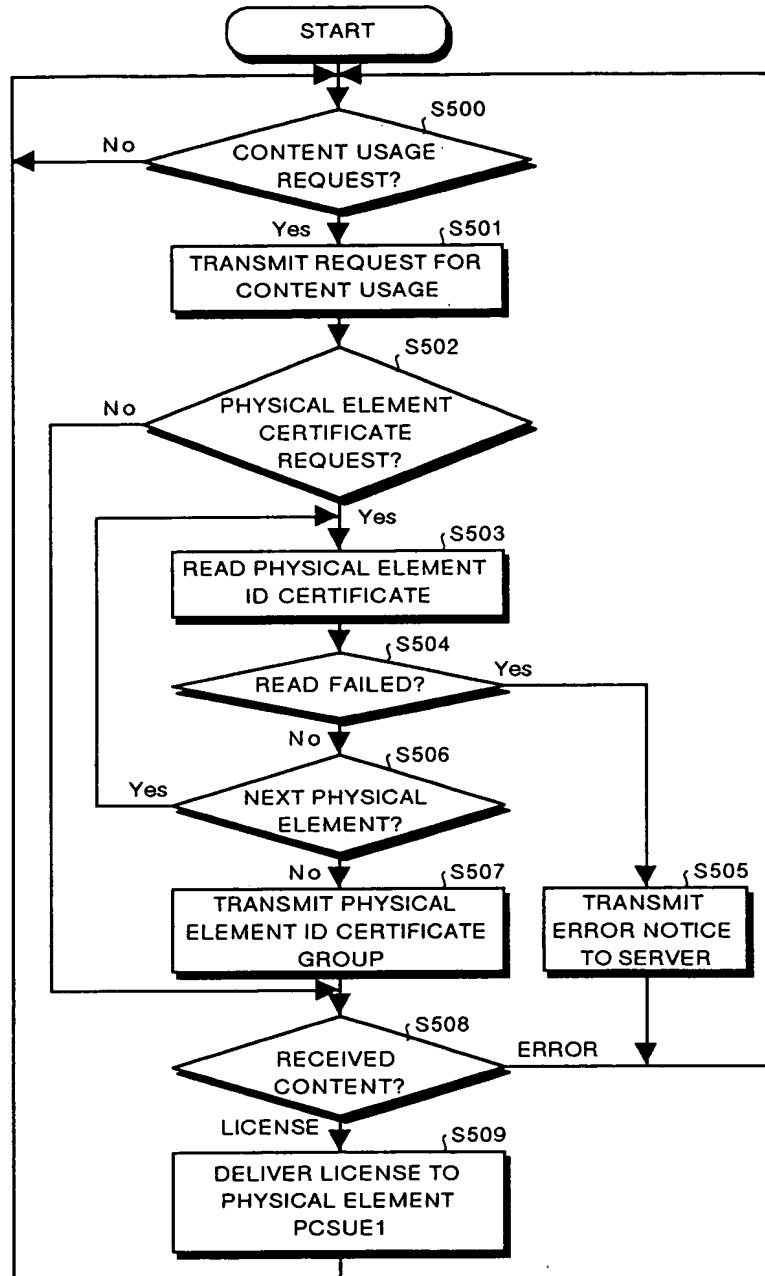
[illegible]

FIG.11



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graph TD
    START([START]) -- S600 --> S600[DECODE RECEIVED  
LICENSE WITH  $K_{Pi}$ ]
    S600 -- S601 --> S601[EVALUATE DECODED  
 $AC_i$ ]
    S601 -- S602 --> S602{ $AC_i$  EVALUATION  
RESULT?}
    S602 -- GOOD -- S603 --> S603[TRANSMIT DECODED  
LICENSE TO  
PCSUE (i+1)]
    S602 -- NOT GOOD --> S604[ERROR PROCESSING]
    S604 --> S603
    S603 --> END([END])
  
```

FIG.13

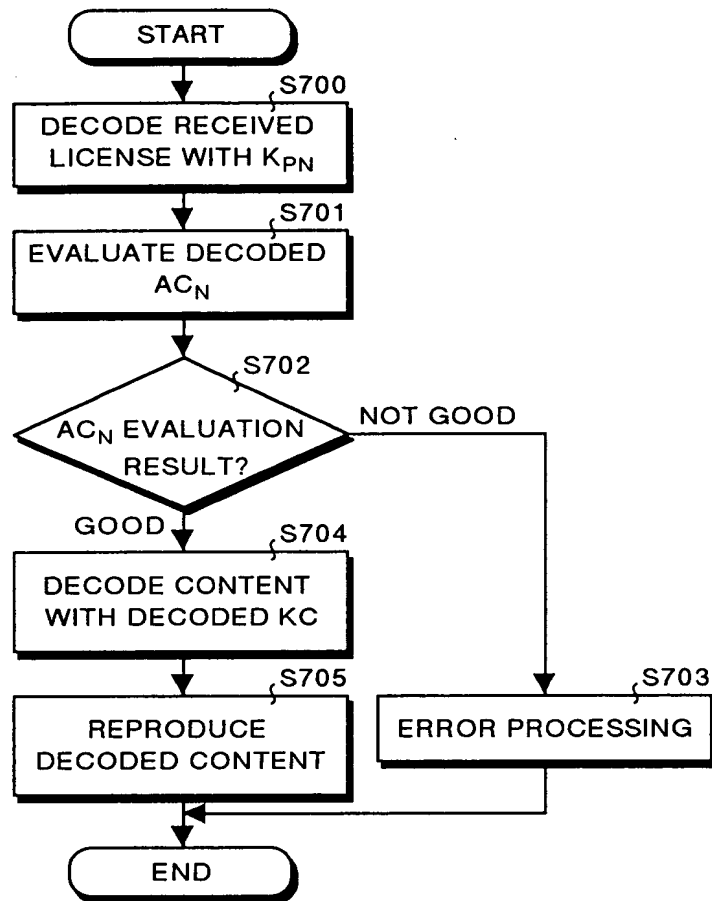


FIG.14

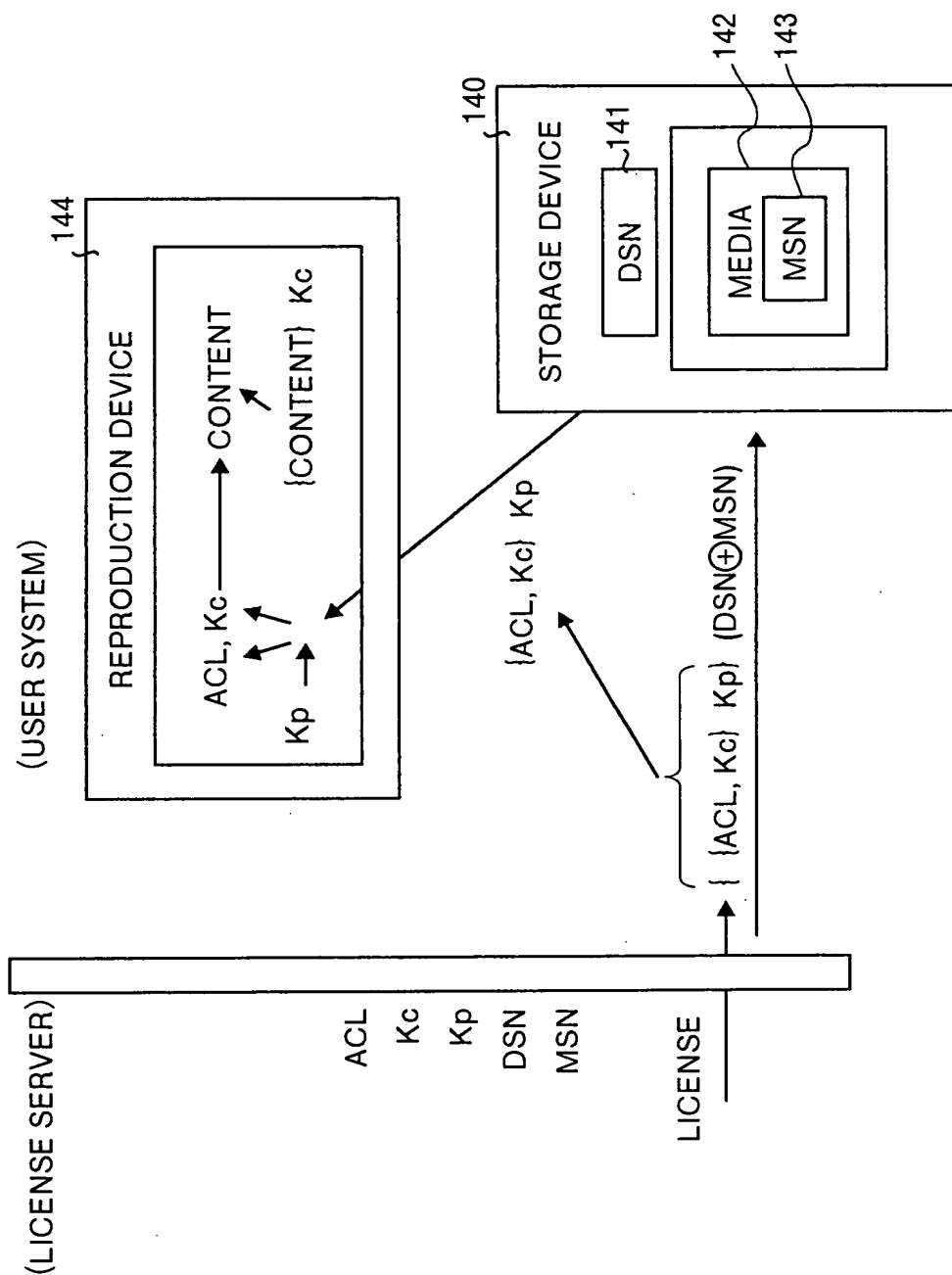
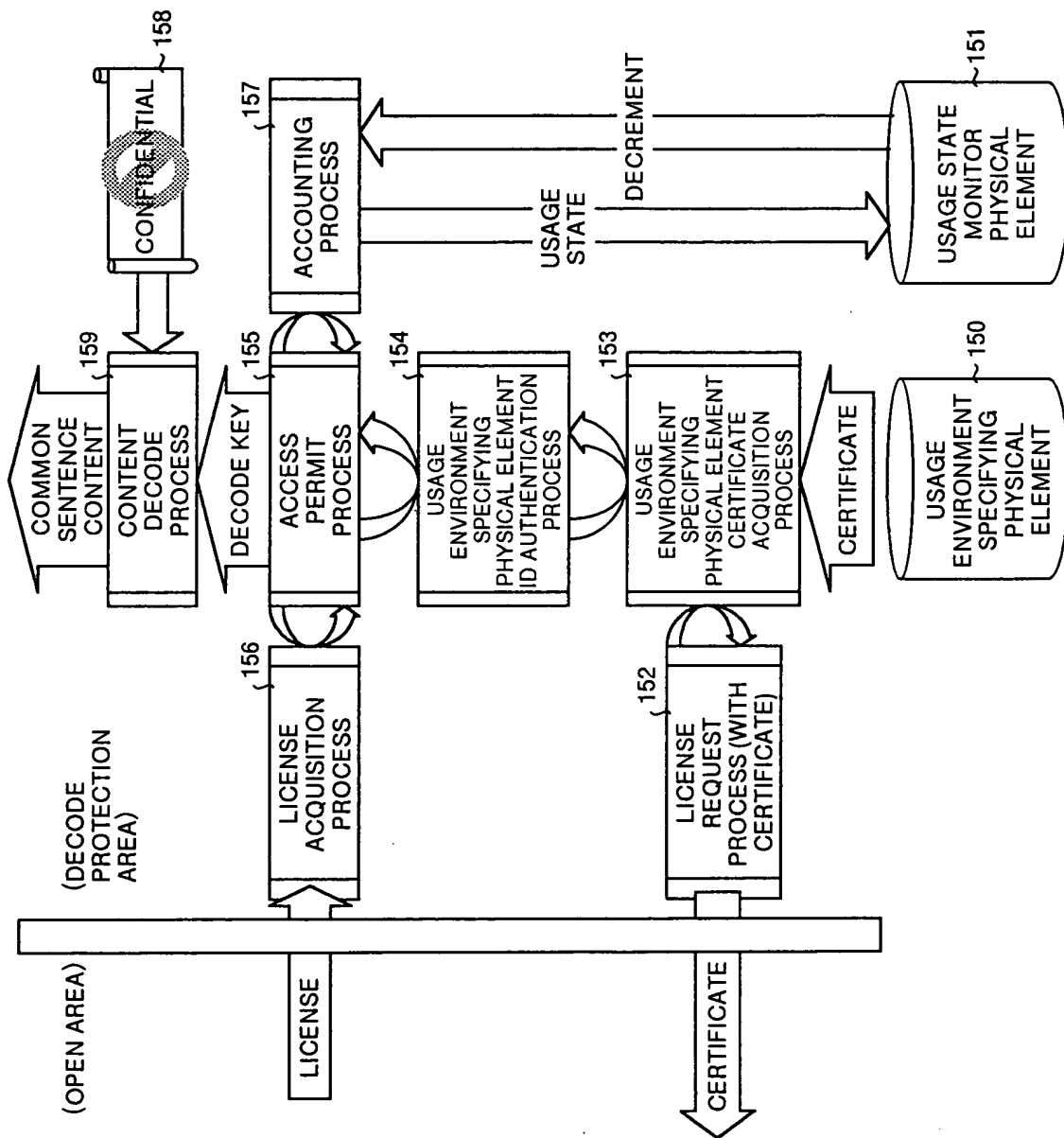


FIG.15



| | APPLICATION LAYER | DEVICE DRIVER LAYER | DEVICE LAYER |
|-----------------------------------------------------------------------------------|-------------------|---------------------|--------------|
| GENERATION OF USAGE ENVIRONMENT SPECIFYING PHYSICAL ELEMENT OWNERSHIP CERTIFICATE | — | ○ | ◎ |
| AUTHENTICATION OF USAGE ENVIRONMENT SPECIFYING PHYSICAL ELEMENT ID | ○ | — | — |
| SEARCH OF ACCESS CONTROL LIST | ○ | — | ○ |
| PROTECTION OF ACCORDING INFORMATION | △ | — | ◎ (IC CARD) |
| CONDITIONAL ACCESS PERMISSION | ○ | — | ○ |
| DECODE | ○ | — | ○ |

FIG. 17

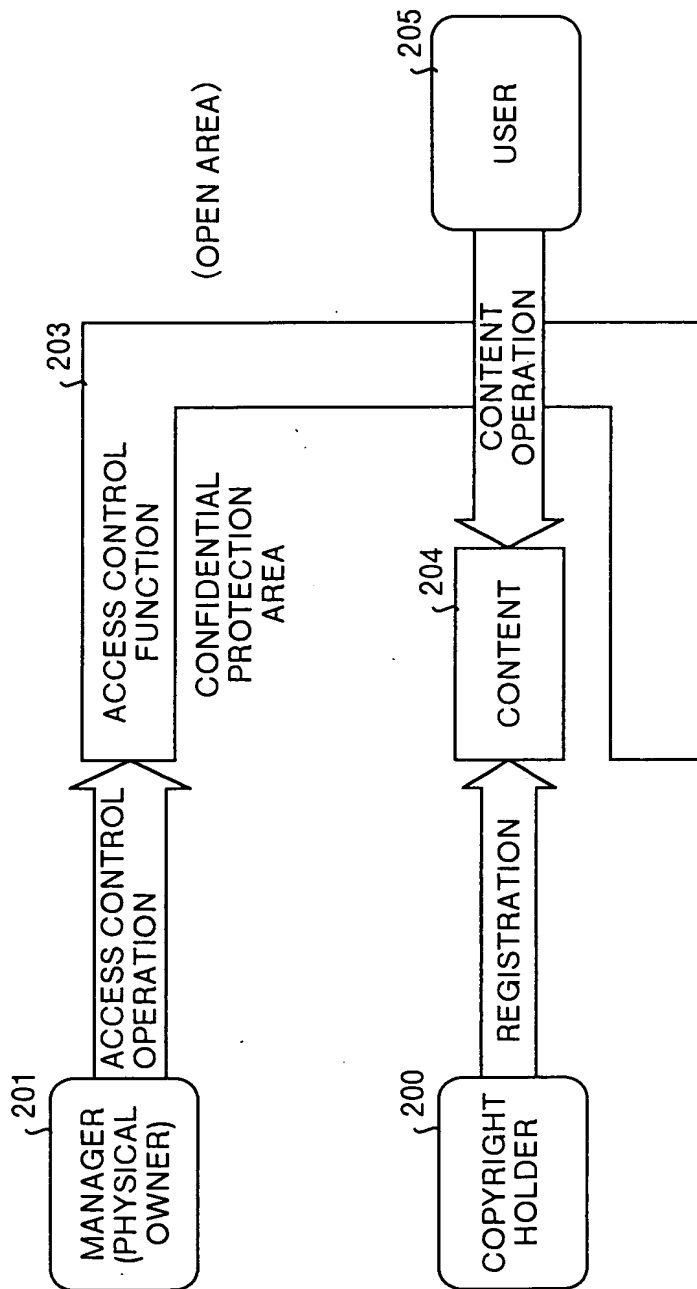


FIG.18

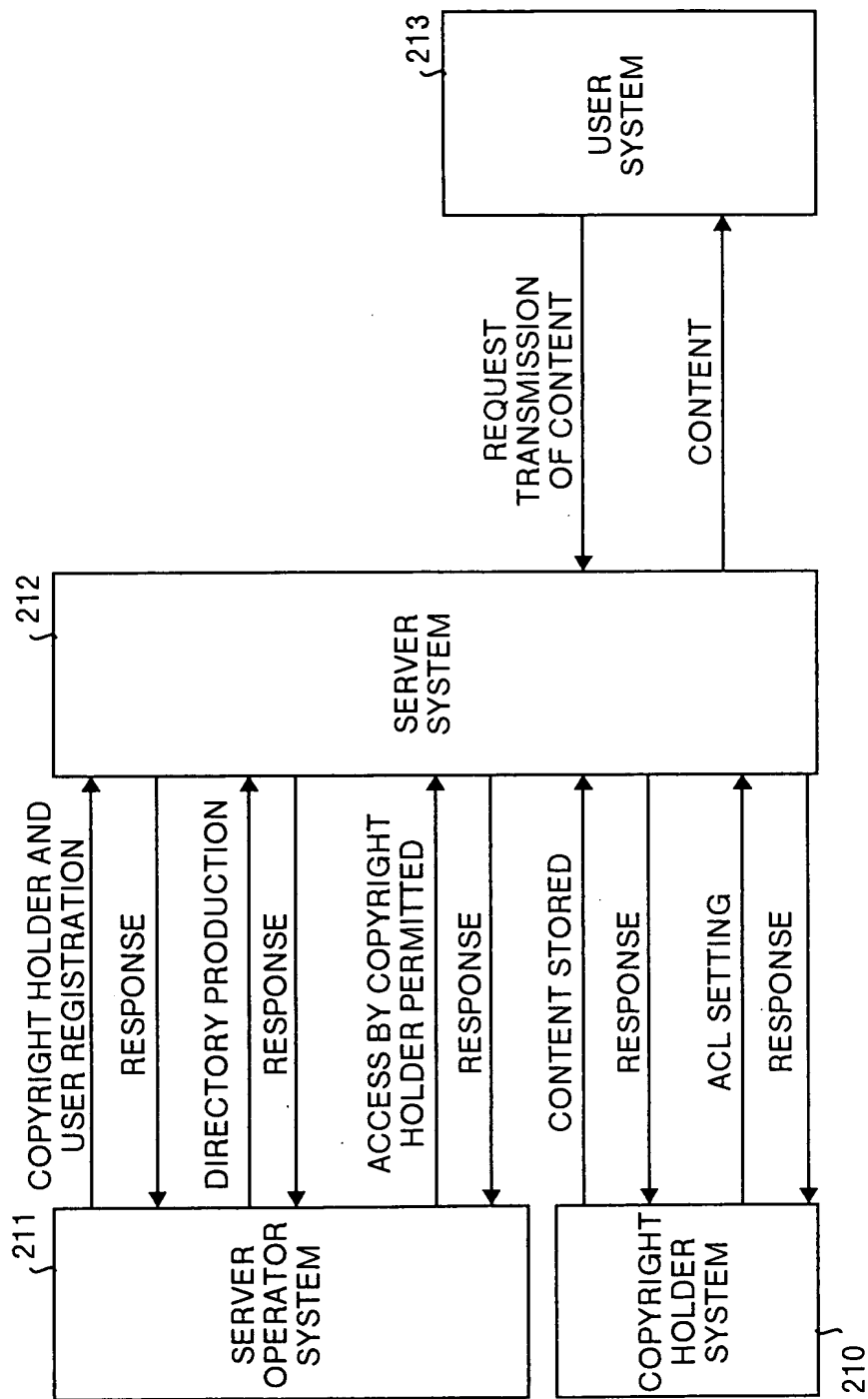


FIG.19

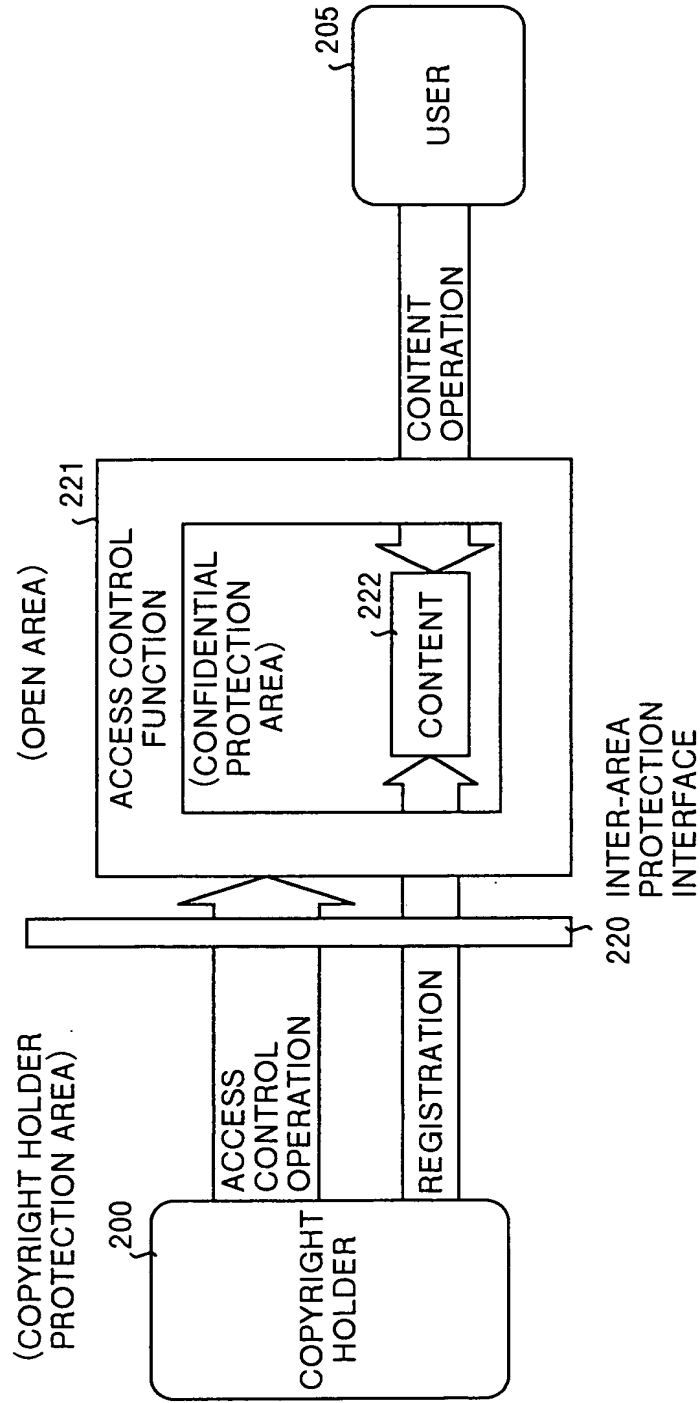
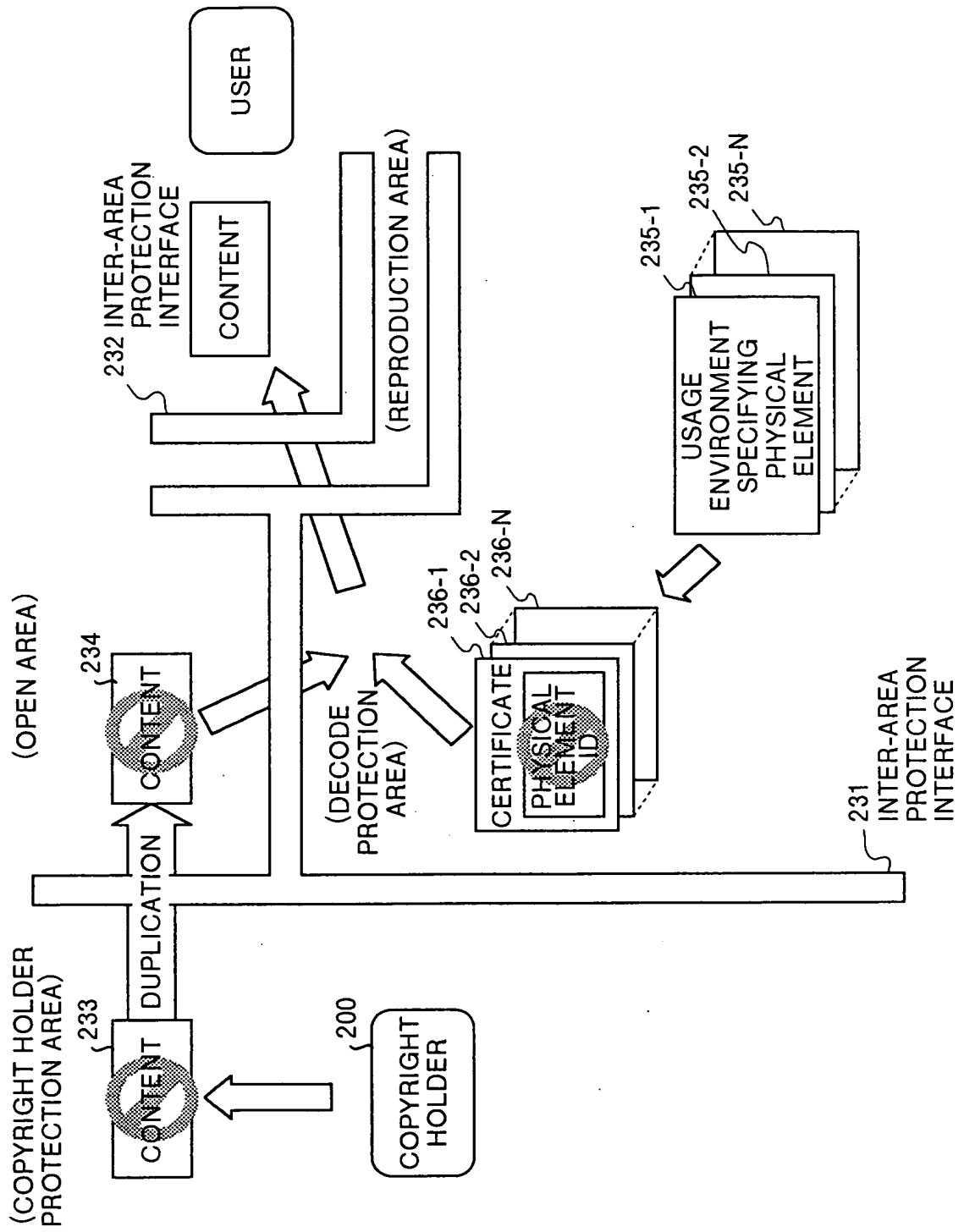


FIG.20




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sequenceDiagram
    participant CHS as 250 Copyright Holder System
    participant CS as 251 Content Server
    participant LS as 252 License Server (Copyright Holder or Proxy System)
    participant US as 253 User System

    CHS->>CS: REGISTER HOLDER SYSTEM
    CS-->CHS: RESPONSE
    CHS->>LS: DELEGATE ACCESS CONTROL RIGHT (CONTENT DECODE KEY)
    LS-->CHS: RESPONSE
    CS->>US: REQUEST DISTRIBUTION OF CONFIDENTIAL CONTENT
    US-->CS: DISTRIBUTE
    LS->>US: REQUEST USAGE
    US-.->>LS: DESIGNATE PHYSICAL ELEMENT CONDITION
    US->>LS: PHYSICAL ELEMENT ID CERTIFICATE GROUP
    LS->>US: TRANSMIT LICENSE
  
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FIG.23

